

Course Title: Drilling Engineering-I

Course Code: PE-213

Course Contents:

Introduction

Drilling, drilling rig, components and drill bits.

Drilling Fluids

Definition, types, functions, drilling fluid models and calculations and Environmental concerns.

Casing, Cementing and Well control Casing design, landing and cementing practices. Well control *equipment and environmental concerns*. Drilling problems; stuck pipe remedial, borehole instability, recovery operation and fishing operations. Safety issues.

Text book(s)

H.Rabia, Well Engineering & Construction, Entrac Consulting, 2001.

Reference Book(s)

Neal J Adams, Drilling Engineering, PennWell Publishing Company, 1985.